STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 199228

TO: Shailendra Kumar
Location: REM-5C03/5C18
Art Unit: 1621
Friday, August 25, 2006
Case Serial Number: 10/522077

From: Usha Shrestha
Location: Biotech-Chem Library
REM-1A64
Phone: (571)272-3519

Usha.shrestha@uspto.gov

Search Notes

Examiner Kumar,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Usha Shrestha
Technical Information Specialist
STIC Biotech/Chem Library
(571)272-3519

8-999

199228

Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: S. Kumar Examiner # : 695-74 Date: 8/22/06
Art Unit: 1621 Phone Number 30 2-0640 Serial Number: 10/522077
Mail Box and Bldg/Room Location: REM 5C03 5C15 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

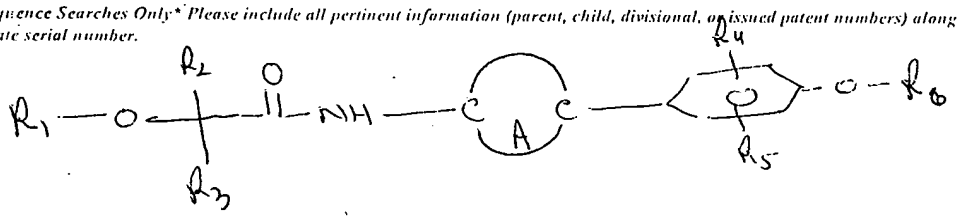
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: N-bisaryl- and n-aryl cycloalkylidenyl-alpha-hydroxy-

Inventors (please provide full names): Clemens Lamberth et al.

Earliest Priority Filing Date: 7/24/02

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*



R_1, R_2, R_4 R_5 are H, alkyl, etc. alkenyl, alkynyl etc.
R_6 is propargyl
A is 1,2-cyclohexylidene or 1,2-cyclopropylidene

Also see claims 10 & 11 & 12 for process

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: Usha	NA Sequence (#) _____	STN 348.15
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) 4	Questel/Orbit _____
Date Searcher Picked Up 8/24/06	Bibliographic _____	Dr.Link _____
Date Completed: 8/25/06	Litigation _____	Lexis/Nexis _____
Searcher Prep Review Time: 60	Fulltext _____	Sequence Systems _____
Clerical Prep Time: 30	Patent Family _____	WWW/Internet _____
Online Time 120	Other _____	Other (specify) _____

PTO-1590 (8-01)

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L11              STR L7
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L15           24 S L14 AND L2
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=> d que l16
L8               STR

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NODE ATTRIBUTES:
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DEFAULT ECLEVEL IS LIMITED

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NUMBER OF NODES IS   4

STEREO ATTRIBUTES: NONE
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FILE 'HCAPLUS' ENTERED AT 10:02:25 ON 25 AUG 2006

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L16 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:101121 HCAPLUS
DOCUMENT NUMBER: 140:163585
TITLE: Preparation of N-bisaryl- and N-aryl-cycloalkylidenyl-alpha-hydroxy- and alpha-alkoxy acid amides as fungicides
INVENTOR(S): Lamberth, Clemens; Zeller, Martin; Goegh, Tibor
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011417	A1	20040205	WO 2003-EP8057	2003 0723

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,

SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL,
PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG

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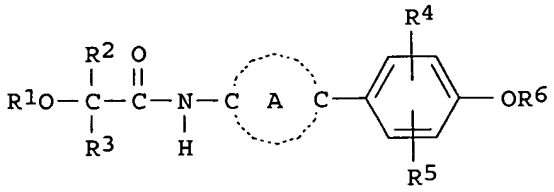
AU 2003251456	A1	20040216	AU 2003-251456	2003 0723
EP 1534664	A1	20050601	EP 2003-771074	2003 0723
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003012872	A	20050614	BR 2003-12872	2003 0723
CN 1671651	A	20050921	CN 2003-817601	2003 0723
JP 2005533854	T2	20051110	JP 2004-523767	2003 0723
US 2005245607	A1	20051103	US 2005-522077	2005 0121
PRIORITY APPLN. INFO.:			GB 2002-17211 A	2002 0724
			WO 2003-EP8057 W	2003 0723

OTHER SOURCE(S): MARPAT 140:163585
GI



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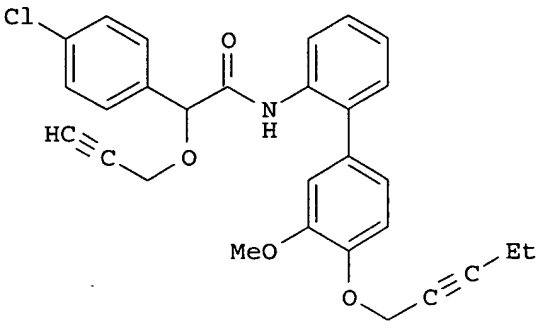

II

AB The title compds. [I; R1 = H, alkyl; alkenyl, alkynyl, haloalkyl; R2 = H, (un)substituted alkyl, alkenyl, alkynyl; R3 = (un)substituted (hetero)aryl; A = (un)substituted (un)saturated cycloalkylidene, phenylidene or (un)saturated heterocyclylidene bridge; R4, R5 = H, an organic radical; R6 = H, trialkylsilyl, dialkylphenylsilyl, alkyldiphenylsilyl, triphenylsilyl, (un)substituted alkyl, alkenyl or alkynyl], were prepared E.g., a multi-step synthesis of II (starting from 4-bromoguaiacol), was given. The compds. I possess plant-protecting properties and are suitable for protecting plants against infestation by phytopathogenic microorganism, especially fungi. E.g., some of them inhibited fungal infestation to at least 80% in three different tests.

IT **602280-76-2P 602280-77-3P 655222-80-3P**
655222-81-4P 655222-82-5P 655223-00-0P
655223-03-3P 655223-06-6P 655223-12-4P
655223-13-5P 655223-14-6P 655223-15-7P
655223-16-8P 655223-17-9P 655223-18-0P
655223-19-1P 655223-20-4P 655223-21-5P
655223-22-6P 655223-23-7P 655223-24-8P
655223-25-9P 655223-26-0P
(preparation of N-aryl-α-hydroxy(or alkoxy) phenylacetamides as fungicides)

RN 602280-76-2 HCAPLUS

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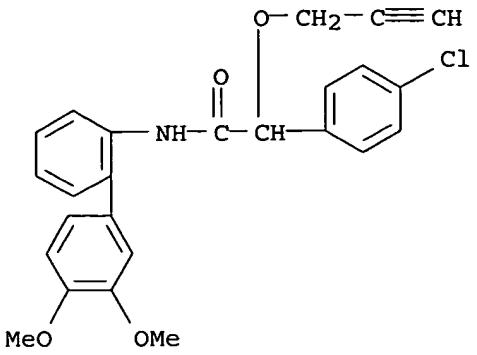

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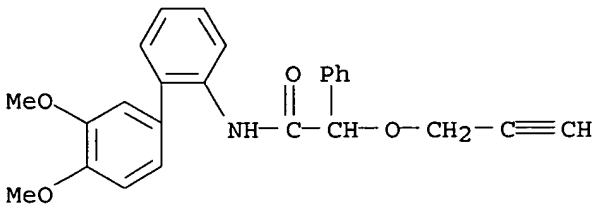

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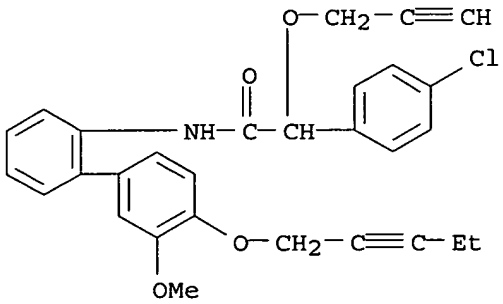

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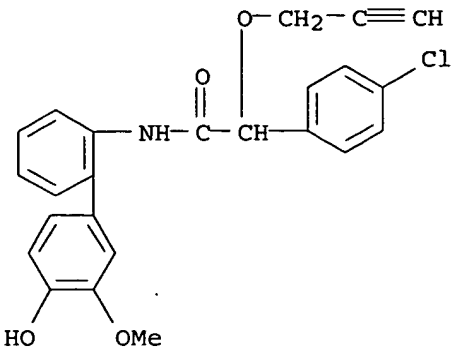

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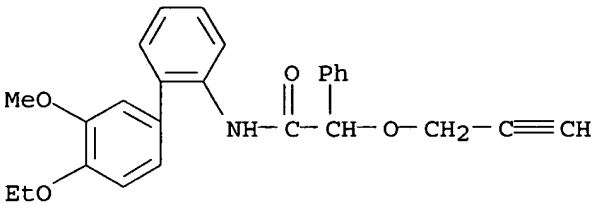

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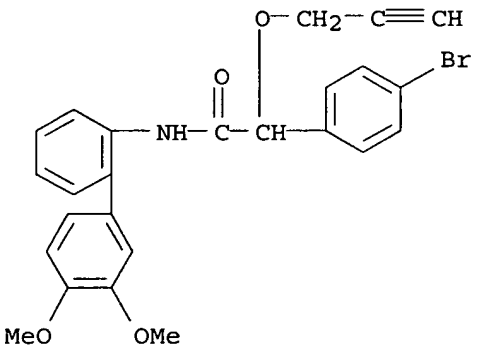

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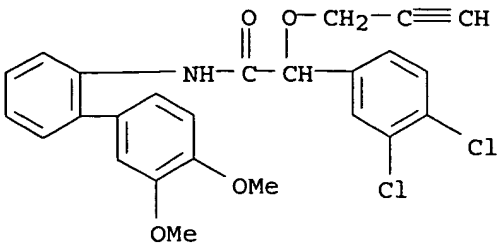

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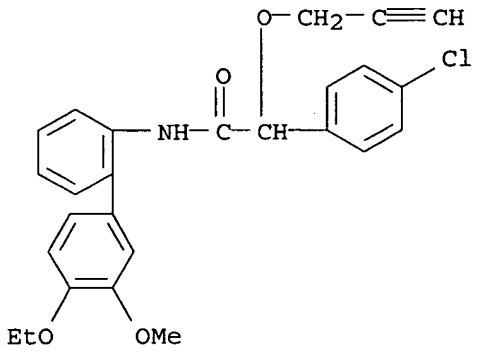

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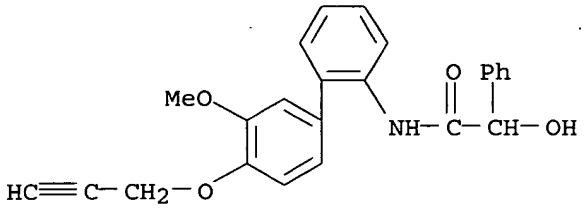

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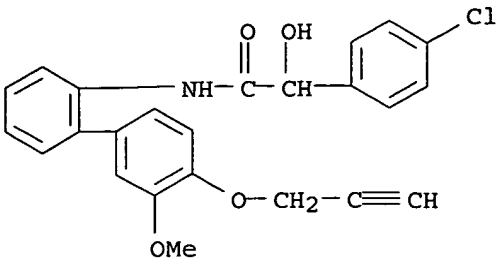

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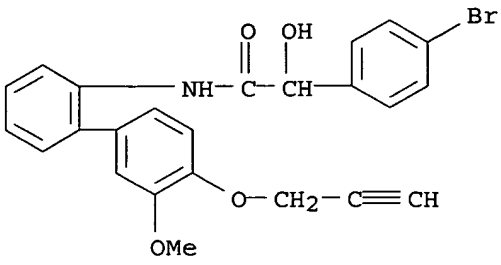

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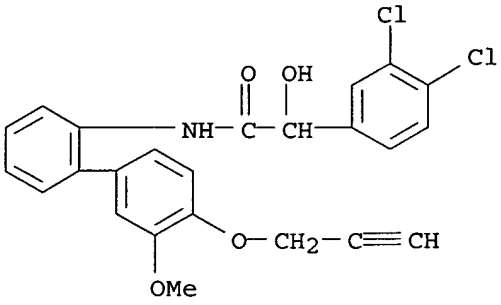

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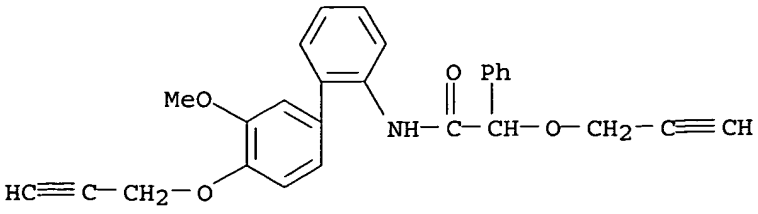

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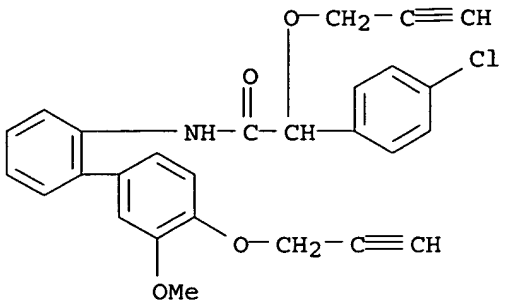

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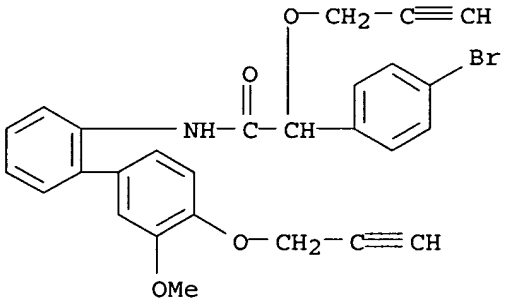

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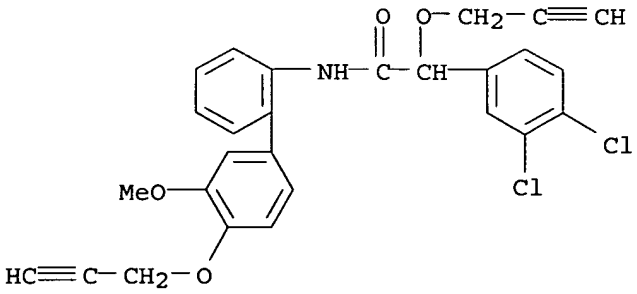

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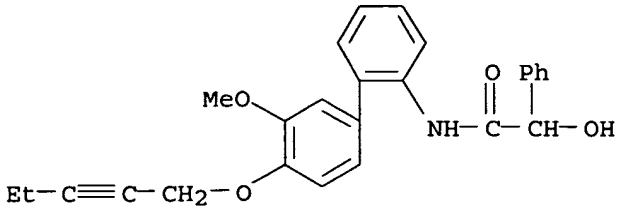

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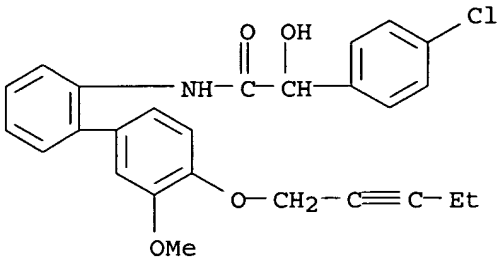

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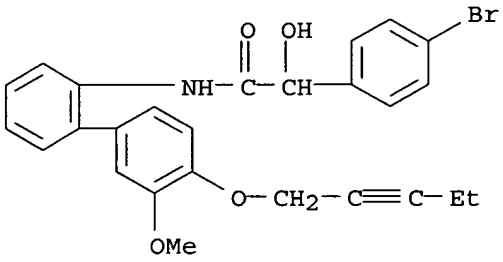

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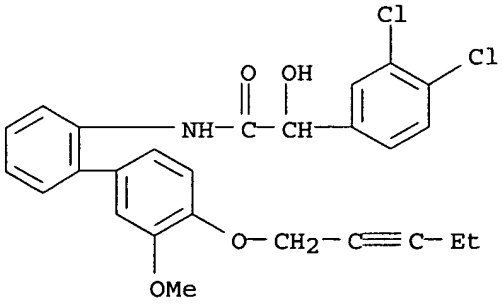

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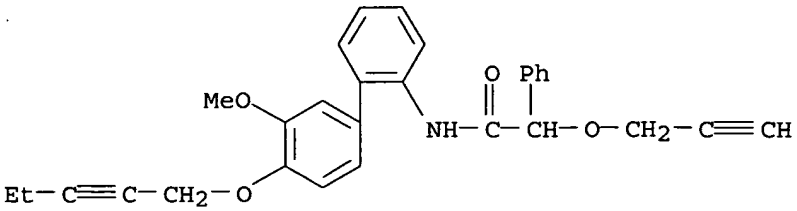

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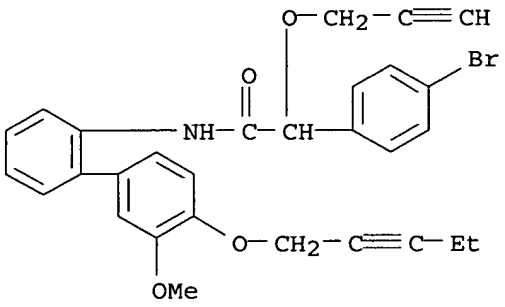

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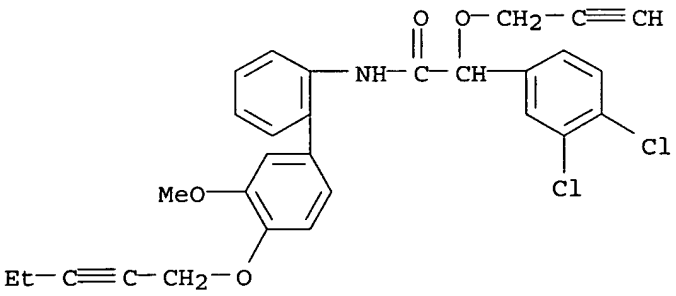
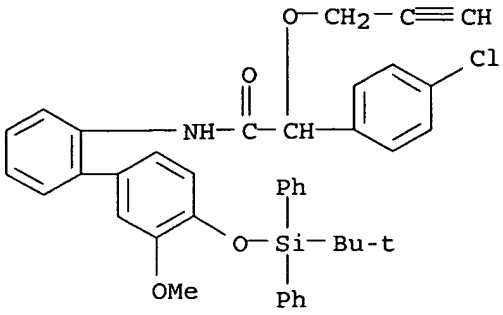


IT **655223-08-8P**
(preparation of N-aryl-α-hydroxy(or alkoxy) phenylacetamides as fungicides)
RN 655223-08-8 HCAPLUS
CN Benzeneacetamide, 4-chloro-N-[4'-[[(1,1-dimethylethyl)diphenylsilyl]oxy]-3'-methoxy[1,1'-biphenyl]-2-yl]-α-(2-propynyloxy)- (9CI) (CA INDEX NAME)



IC ICM C07C235-38
ICS C07C235-36; C07C215-74; C07C217-80; C07C215-64; C07C217-74
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5
IT **602280-76-2P 602280-77-3P** 602280-96-6P
602281-04-9P **655222-80-3P 655222-81-4P**
655222-82-5P 655222-83-6P 655222-84-7P 655222-85-8P
655222-86-9P 655222-87-0P 655222-88-1P 655222-89-2P
655222-90-5P 655222-91-6P 655222-92-7P 655222-93-8P
655222-94-9P 655222-95-0P 655222-96-1P 655222-97-2P
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655223-15-7P 655223-16-8P 655223-17-9P
655223-18-0P 655223-19-1P 655223-20-4P
655223-21-5P 655223-22-6P 655223-23-7P
655223-24-8P 655223-25-9P 655223-26-0P
655223-27-1P 655223-28-2P 655223-29-3P 655223-30-6P
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655223-35-1P 655223-36-2P 655223-37-3P
(preparation of N-aryl-α-hydroxy(or alkoxy) phenylacetamides as fungicides)
IT 431879-38-8P 482309-54-6P 482309-55-7P 482309-56-8P
482309-57-9P 482309-58-0P **655223-08-8P**
(preparation of N-aryl-α-hydroxy(or alkoxy) phenylacetamides as fungicides)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:757666 HCAPLUS
DOCUMENT NUMBER: 139:261052
TITLE: Preparation of N-biphenylacetamides as agrochemical fungicides
INVENTOR(S): Sakaguchi, Hiroshi
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2003078382	A1	20030925	WO 2003-JP2015
			2003
			0225

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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AU 2003211652	A1	20030929	AU 2003-211652
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EP 1486483	A1	20041215	EP 2003-707030
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2003335744	A2	20031128	JP 2003-67817
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US 2005192359	A1	20050901	US 2004-507586
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PRIORITY APPLN. INFO.:			JP 2002-71627 A
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			0225

OTHER SOURCE(S): MARPAT 139:261052
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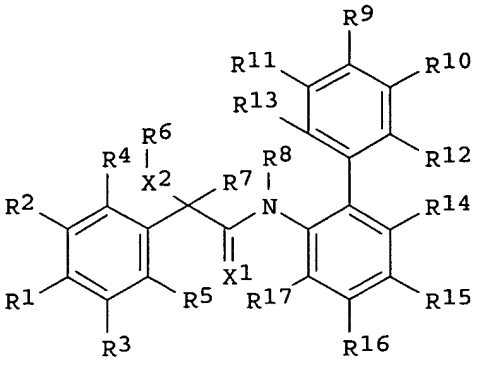

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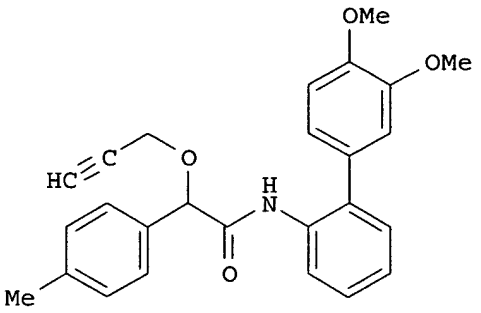


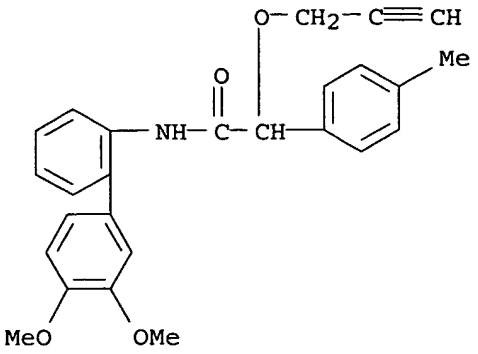
II

AB The title N-biphenylacetamides with general formula of I [R1-R5 = independently H, halo, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)alkenyloxy, (halo)alkynyloxy, (halo)alkylthio, cycloalkyl(oxy), trialkylsilyl, or CN; R6 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkylcarbonyl, (halo)alkenylcarbonyl, or (halo)alkynylcarbonyl; R7 = H or alkyl; R8 = H or alkyl; R9 and R10 = independently halo, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, cyanoalkyl, (halo)alkoxy, (halo)alkenyloxy, (halo)alkynyloxy, cyanoalkoxy, (halo)alkylthio, alkenylthio, alkynylthio, cycloalkyl(oxy), cycloalkylalkoxy, alkoxyalkyl, trialkylsilyl, or CN; R11-R13 = independently H, halo, or alkyl; R14-R17 = independently H, halo, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy, (halo)alkenyloxy, (halo)alkynyloxy, (halo)alkylthio, cycloalkyl(oxy), trialkylsilyl, or CN; X1 = O or S; X2 = O or S] are prepared as agrochem. fungicides. Thus, N-(3',4'-dimethoxybiphenyl-2-yl)-2-hydroxy-2-(4-methylphenyl)acetamide (preparation given) was treated with MeSO2Cl in Et2O in the presence of Et3N, followed by the addition of 2-propyn-1-ol to give II. I showed antifungal activity of >90% at the concentration of 500 ppm in 4 days in tomato seedlings.

IT **602280-68-2P 602280-69-3P 602280-70-6P**
602280-71-7P 602280-72-8P 602280-73-9P
602280-74-0P 602280-75-1P 602280-76-2P
602280-77-3P 602280-79-5P 602280-84-2P
(fungicide; preparation of N-biphenylacetamides as agrochem. fungicides)

RN 602280-68-2 HCAPLUS

CN Benzeneacetamide, N-(3',4'-dimethoxy[1,1'-biphenyl]-2-yl)-4-methyl-α-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 602280-69-3 HCAPLUS
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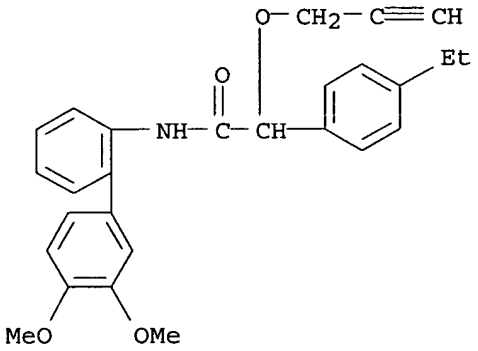

RN 602280-70-6 HCAPLUS
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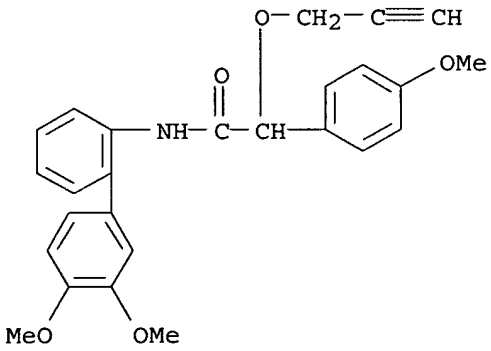

RN 602280-71-7 HCAPLUS
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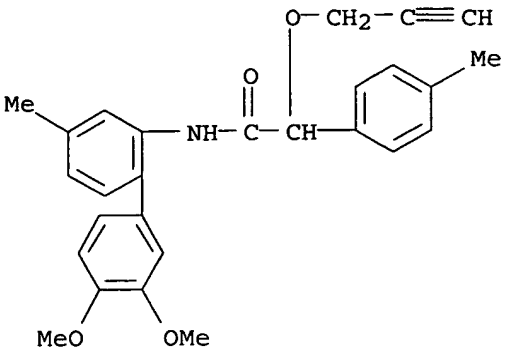

RN 602280-72-8 HCAPLUS
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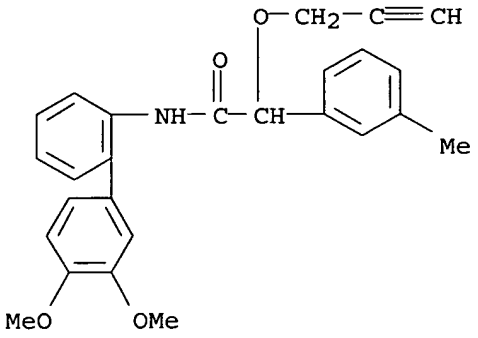
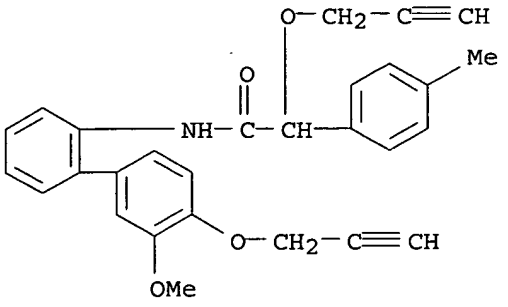


RN 602280-73-9 HCAPLUS
CN Benzeneacetamide, N-[3'-methoxy-4'-(2-propynyloxy)[1,1'-biphenyl]-2-yl]-4-methyl-α-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 602280-74-0 HCAPLUS
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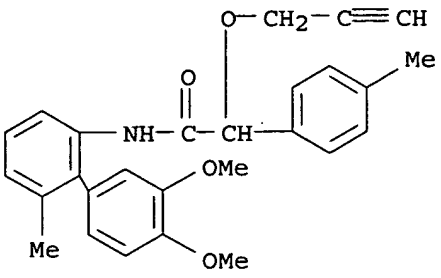
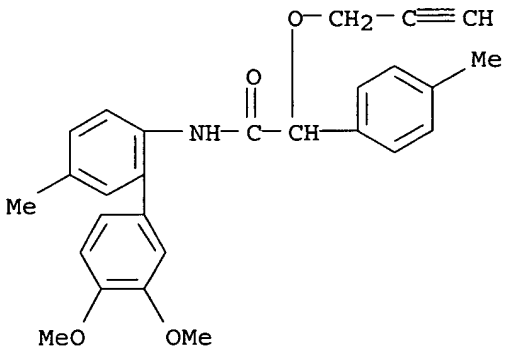


RN 602280-75-1 HCAPLUS
CN Benzeneacetamide, N-(3',4'-dimethoxy-5-methyl[1,1'-biphenyl]-2-yl)-4-methyl-α-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 602280-76-2 HCAPLUS
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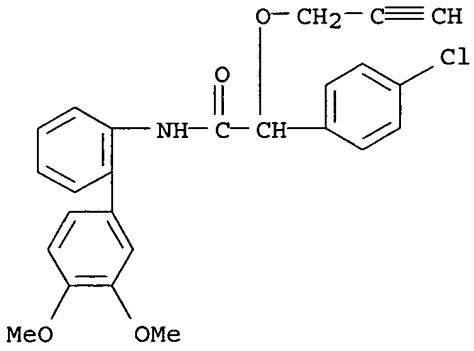
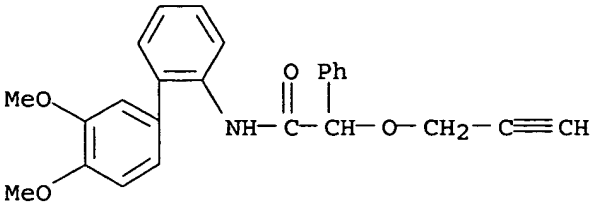


RN 602280-77-3 HCAPLUS
CN Benzeneacetamide, N-(3',4'-dimethoxy[1,1'-biphenyl]-2-yl)-α-(2-propynyloxy)- (9CI) (CA INDEX NAME)



RN 602280-79-5 HCAPLUS
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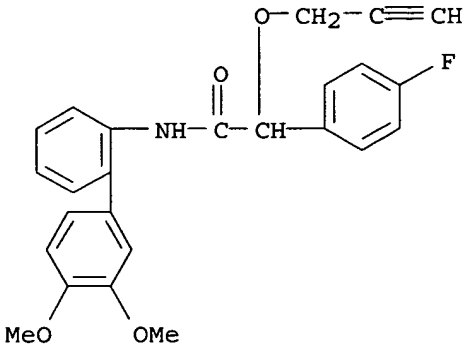
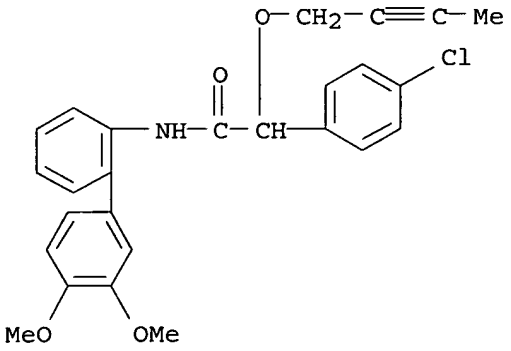


RN 602280-84-2 HCAPLUS
CN Benzeneacetamide, α-(2-butynyloxy)-4-chloro-N-(3',4'-dimethoxy[1,1'-biphenyl]-2-yl)- (9CI) (CA INDEX NAME)



IC ICM C07C235-38
ICS C07C255-13; C07C255-63; C07C323-37; C07C323-60; C07C323-62; C07C327-44
CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5
IT **602280-68-2P 602280-69-3P 602280-70-6P**
602280-71-7P 602280-72-8P 602280-73-9P
602280-74-0P 602280-75-1P 602280-76-2P
602280-77-3P 602280-78-4P **602280-79-5P**
602280-80-8P 602280-81-9P 602280-82-0P **602280-84-2P**
602280-86-4P 602280-87-5P 602280-88-6P 602280-89-7P

602281-06-1P
(fungicide; preparation of N-biphenylacetamides as agrochem. fungicides)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:900234 HCAPLUS
DOCUMENT NUMBER: 136:340462
TITLE: Synthesis and biological activity of novel thyroid hormone analogues: 5'-aryl substituted GC-1 derivatives
AUTHOR(S): Chiellini, Grazia; Nguyen, Ngoc-Ha; Apriletti, James W.; Baxter, John D.; Scanlan, Thomas S.
CORPORATE SOURCE: Departments of Pharmaceutical Chemistry and Cellular & Molecular Pharmacology, University of California, San Francisco, CA, 94143-0446, USA
SOURCE: Bioorganic & Medicinal Chemistry (2001), Volume Date 2002, 10(2), 333-346
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:340462
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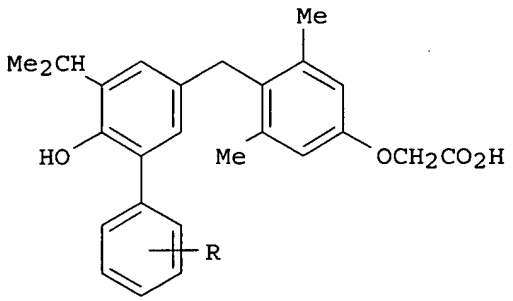
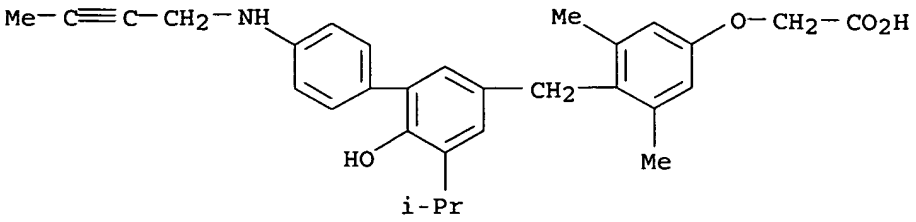


I

AB Biphenylmethylphenoxyacetic acids I [R = 4-NO2, 4-NHCH2CO2H, 4-NHCONHPh, 4-NHCH2C.tplbond.CMe, 4-NH2, 3-NO2, 2-NO2, 4-CO2H, 4-CONH2, 4-NHC(:NH)NH2] were prepared via arylation of the diphenylmethaneboronic acid. Substitution at the 5'-position decreased binding affinity, but retained TRβ-selectivity for most of the compds. Transactivation assays reveal that most of these compds. function as thyroid hormone agonists, but I [R = 4-NO2] antagonizes the response to thyroid hormone.
IT **417872-45-8P**
(preparation of biphenylmethylphenoxyacetic acids as thyroid hormone analogs)
RN 417872-45-8 HCAPLUS
CN Acetic acid, [4-[[4'-(2-butynylamino)-6-hydroxy-5-(1-methylethyl)[1,1'-biphenyl]-3-yl]methyl]-3,5-dimethylphenoxy]- (9CI) (CA INDEX NAME)



CC 25-17 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1
IT 417871-97-7P 417872-05-0P 417872-10-7P 417872-14-1P
417872-18-5P 417872-30-1P 417872-38-9P **417872-45-8P**
417872-54-9P 417872-67-4P 447415-34-1P
(preparation of biphenylmethylphenoxyacetic acids as thyroid hormone analogs)
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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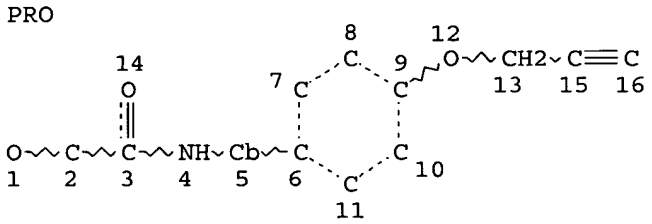

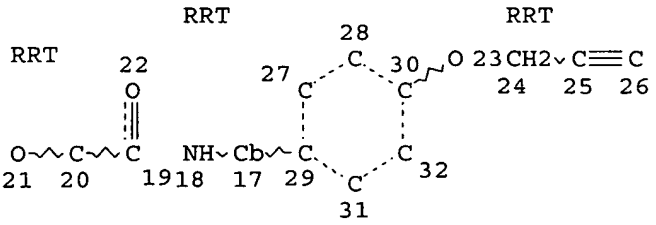

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GGCAT IS MCY UNS AT 5
GGCAT IS MCY UNS AT 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 32

STEREO ATTRIBUTES: NONE
L19 0 SEA FILE=CASREACT SSS FUL L17 (0 REACTIONS)

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CS
SEARCH TIME: 00.00.01